

THANKS FOR CHOOSING THIS PRODUCT

Durofix provides you with products at an affordable price, and we would like you to be fully satisfied with this product and our technical support. If any help or advice is needed, please kindly contact us.

INTENDED USE

This tool is intended for trained adult use only.

This right angle wrench /right angle screwdriver is designed to remove and install threaded fasteners.

GENERAL SAFETY RULES

WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

RECOGNIZE SAFETY SYMBOLS, WORDS AND LABELS

The safety instructions provided in this manual are not intended to cover all possible conditions and practices that may occur when operating, maintaining and cleaning power tools.

Always use common sense and pay particular attention to all the **DANGER**, **WARNING**, **CAUTION** and **NOTE** statements of this manual.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTE

NOTE provides additional information that is useful for proper use and maintenance of this tool. If a **NOTE** is indicated make sure it is fully understood.

WARNING LABEL IDENTIFICATION



Read Manuals Before Operating Product.



Wear Eye Protection.



Wear Hearing Protection.



Wear Dust Mask.



Power tools can vibrate in use.



Keep body stance balanced and firm. Do not overreach when operating this tool.



CE marking is a certification mark that indicates conformity with health, safety, and environmental protection standards for products sold within the European

IMPORTANT SAFETY RULES

DANGER

When using power tools, always prevent exposure and breathing of harmful dust and particles.

WARNING: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to (the State of California) to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products, and arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

WARNING: Handling the power cord on corded products may expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. *Wash hands after handling.*

WORK AREA

WARNING

Keep work area clean and well lit. Cluttered and dark areas invite accidents.

Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

Keep children and bystanders away while operating a power tool. Distractions can cause you to lose

control.

ELECTRICAL SAFETY

WARNING

- a. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- b. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock
- c. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- d. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- e. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
- f. **NOTE** The term “residual current device (RCD)” can be replaced by the term “ground fault circuit interrupter (GFCI)” or “earth leakage circuit breaker (ELCB)”.

PERSONAL SAFETY

WARNING

- a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.
- h. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

TOOL USE AND CARE

WARNING

- a. **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.

- b. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
- c. **Do not use tool if switch does not turn it on or off.** A tool that cannot be controlled with the switch is dangerous and must be repaired.
- d. **Disconnect battery pack from tool or place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- e. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- f. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.**
Many accidents are caused by poorly maintained power tools.
- g. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- h. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- i. **Keep handles and grasping surfaces dry, clean and free from oil and grease.**
Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.
- j. **When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause sparks, burns, or a fire.
- k. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edge are less likely to bind and are easier to control.
- l. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- m. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

BATTERY TOOL USE AND CARE

WARNING

- a. **Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.
- b. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- c. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- d. **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- e. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- f. **Do not use a battery pack or tool that is damaged or modified.** Damaged or
- g. modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- h. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion. NOTE The temperature „130 °C“ can be replaced by the temperature „265 °F“.

English

- i. **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

SERVICE

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Never service damaged BATTERY packs. Service of BATTERY packs should only be performed by the manufacturer or authorized service providers.

Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury.

When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock or injury.

Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring. Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

SPECIFIC SAFETY RULES AND SYMBOLS

CAUTION

Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with 'live' wire will also make exposed metal parts of the tool 'live' and shock the operator.

Be aware that this tool is always in an operating condition, because it does not have to be plugged into an electrical outlet. Always set the trigger switch to the locked OFF position when installing or removing the battery pack or bits.

Do not use bits or sockets larger than those recommended. Large bits or drills may overload the wrench/driver and damage the motor and gears.

Do not use if chuck jaws or other parts are cracked or worn.

Never change direction of rotation until motor has completely stopped.

Never hold work in your hand, lap, or against other parts of your body when driving.

Do not use drill as a router or try to elongate or enlarge holes by twisting the drill bit. Drill bits may break and cause injury.

Keep hands away from rotating parts.

Keep drill bit clear of yourself and all objects while installing and removing bit.

Some wood contains preservatives which can be toxic. Take extra care to prevent inhalation and skin contact when working with these materials. Request, and follow, all safety information available from your material supplier.

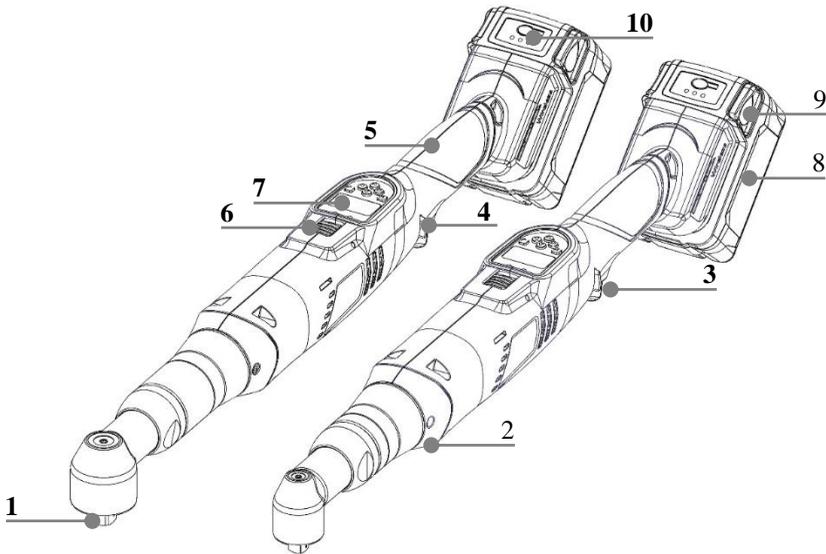
SYMBOLS

The label on your tool may include the following symbols. The symbols and their definitions are as follows:

English

SYMBOL	NAME	EXPLANATION
V	Volts	Voltage (potential)
n _o	No Load Speed	No-load Rotational Speed
kg	Kilograms	Weight
 d.c.	Direct Current	Type of Current
.../min	Revolutions per Minute	Revolutions, Surface Speed, Strokes, etc. per Minute
rpm	Revolutions per Minute	Revolutions, Surface Speed, Strokes, etc. per Minute

FUNCTIONAL DESCRIPTION



CONTROLS AND COMPONENTS:

1. 3/8" Sq./1/2" Sq. Anvil
2. LED Lamp
3. Trigger
4. Forward/Reverse Lever
5. Handle
6. USB port
7. Display Screen
8. Battery Pack
9. Release Button
10. Battery Power Indicator

SPECIFICATIONS

Model Number	Unit	RV2053- WR45	RV2053- WR80	RV2053- WR120
Voltage	V d.c.	20		
Drive/Anvil	in.	3/8”sq.	1/2”sq.	1/2”sq.
Max. Tightening Torque	Nm	8~45	12~80	40~120
	ft-lbs	5.9~33.2	8.85~59	29.5~88.5
Programmable Speed	rpm	20-200	20-130	20-100
Tool Weight(w/o battery)	Kg	2.1	2.24	2.24
	lbs	4.6	4.93	4.93
Noise value	$L_{pA} = 71.8 \text{ dB(A)}$, $K_{pA} = 3.0 \text{ dB(A)}$			
Vibration value	$a_{h1} = 10.56 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$			

▲ WARNING

- that the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and
- of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

Charger Model Number	DC20EU28-C30
Input	100-240 Va.c., 50-60 Hz
Output	21.0 Vd.c.
Output Amps	3.0A
Input Power	85W
Charger Weight	0.88 lbs / 0.4kg
Battery Pack Model Number	B2036LA / B2036LB
	B2036LA-2 / B2036LB-2
Type	Li-ion
Capacity	2.0Ah / 2.5Ah
	4.0Ah / 5.0Ah

ASSEMBLY

INSTALLING OR REMOVING BATTERY PACK

TO INSTALL BATTERY PACK: Push battery pack (A) onto tool (B) until it locks in place. (see Fig. 1)

TO REMOVE BATTERY PACK: Depress the battery the two side release button and pull battery pack (A) out of tool (B). (see Fig.1)

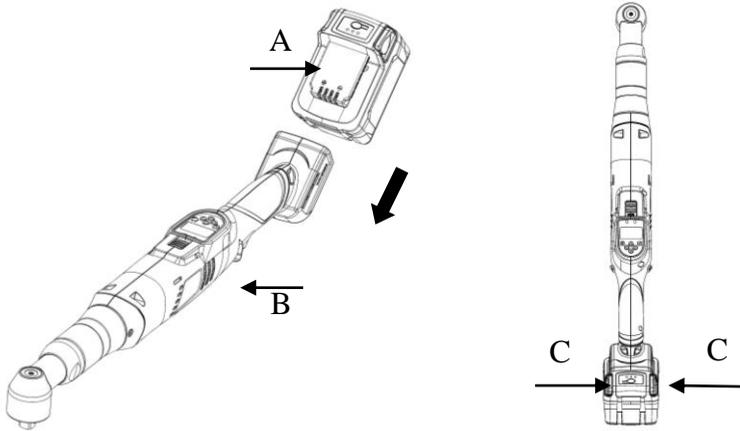


Fig. 1

OPERATION**Switch Trigger**

To turn the tool on, squeeze the trigger switch. To turn the tool off, release the trigger switch (see fig.2).

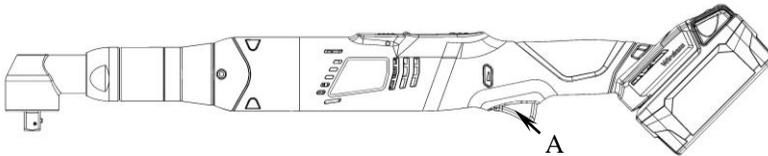


Fig. 2

NOTE: The tool is equipped with a soft-starting feature. If the switch off after a proper screw driving operation, restarting is not possible until after around 0.8 seconds. This prevents accidental retightening of already tightened screws.

Forward / Reverse Lever

A forward/reverse lever determines the direction of the tool and also serves as a lock off button.

To select forward rotation, RELEASE THE SWITCH (A) (see Fig.3), and push the forward/reverse lever (B) (see Fig.3) toward left side of the tool. ◀

To select reverse rotation, RELEASE THE SWITCH (A) (see Fig.3), and push the forward/reverse lever (B) (see Fig.3) toward right side of the tool. ▶

The centre position of the lever locks the tool in the off position.

NOTE: When change the position of the lever, making sure the trigger is released.

NOTE: The lever should be moved in the centre position with no operation.

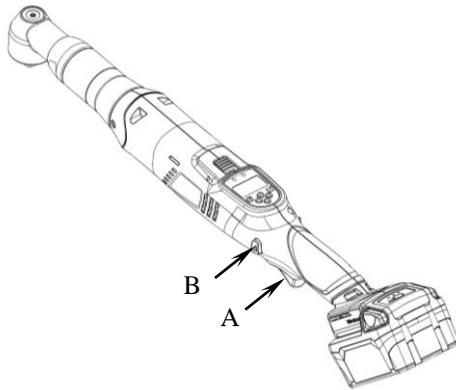


Fig. 3

INSTALLING THE SOCKET ONTO ANVIL

- (1) Press down the fixing pin (1) in the direction shown by the arrow (Fig. 4).
- (2) Insert the socket into the anvil, and then release the fixing pin to secure the socket.

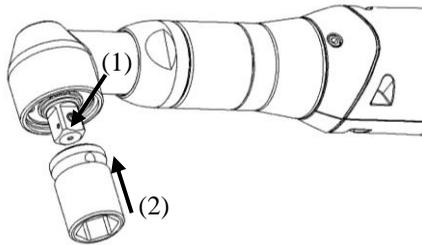


Fig. 4

Note: If the fixing pin is not pressed deep enough, the socket will not be able to fit into the anvil smoothly, or the fixation will not be firm enough. In this case, try reinstalling according to the instructions above.

Note: Before installing or removing the socket, be sure to set the control push the F/R lever to the middle position to prevent accidentally pressing the switch to start. The socket must be in compliance with ISO specifications. The side fixing hole size is as follows. It is recommended to use a 7.9mm socket (Fig. 5). Using a socket that does not comply with ISO specifications will not be able to be reliably fixed on the anvil of the tool.

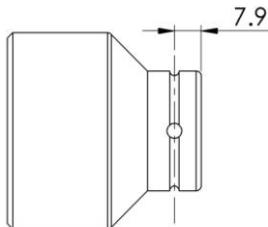


Fig. 5

BATTERY POWER INDICATOR

Trigger the tool and Battery Indicator to show the battery pack’s remaining capacity

- 1. One light ON: 30% remaining capacity.
- 2. Two lights ON: 60% remaining capacity.
- 3. All lights ON: 100% remaining capacity.

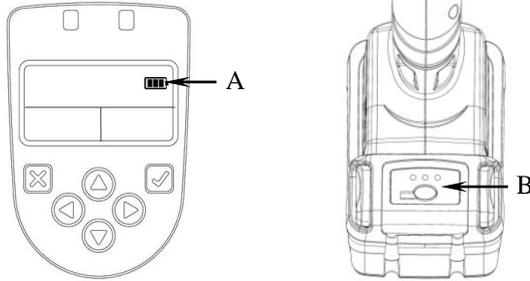


Fig.6

Status LED & Programming Key Definitions

There are 2 LEDs atop the display screen. The status of LEDs shall be used as follows:
Green – The last tightening cycle ended within target upper/lower limits with beep sound.
Red – The last tightening cycle exceed /below target limits with beep sound.
Red/Green blink – The tool set in reverse direction.

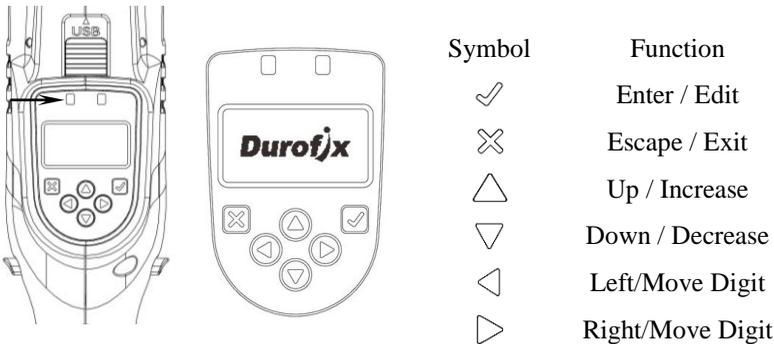
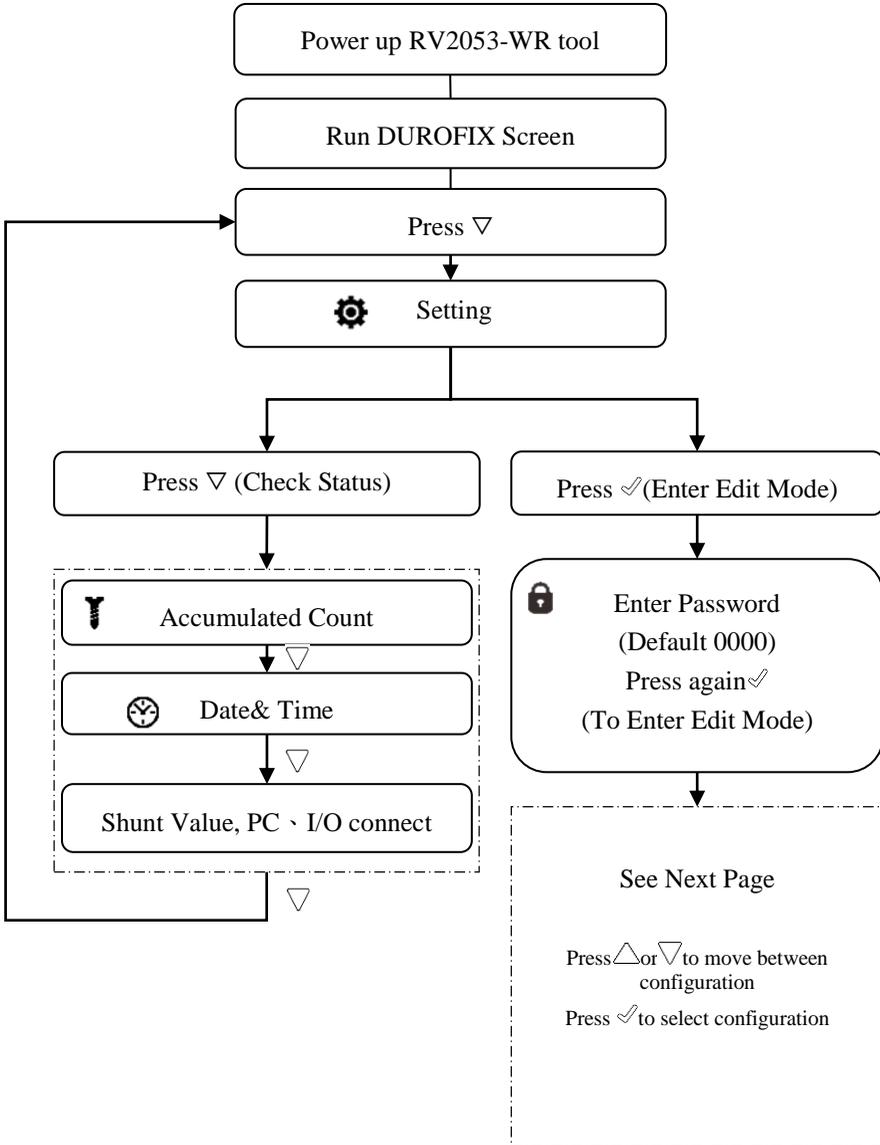
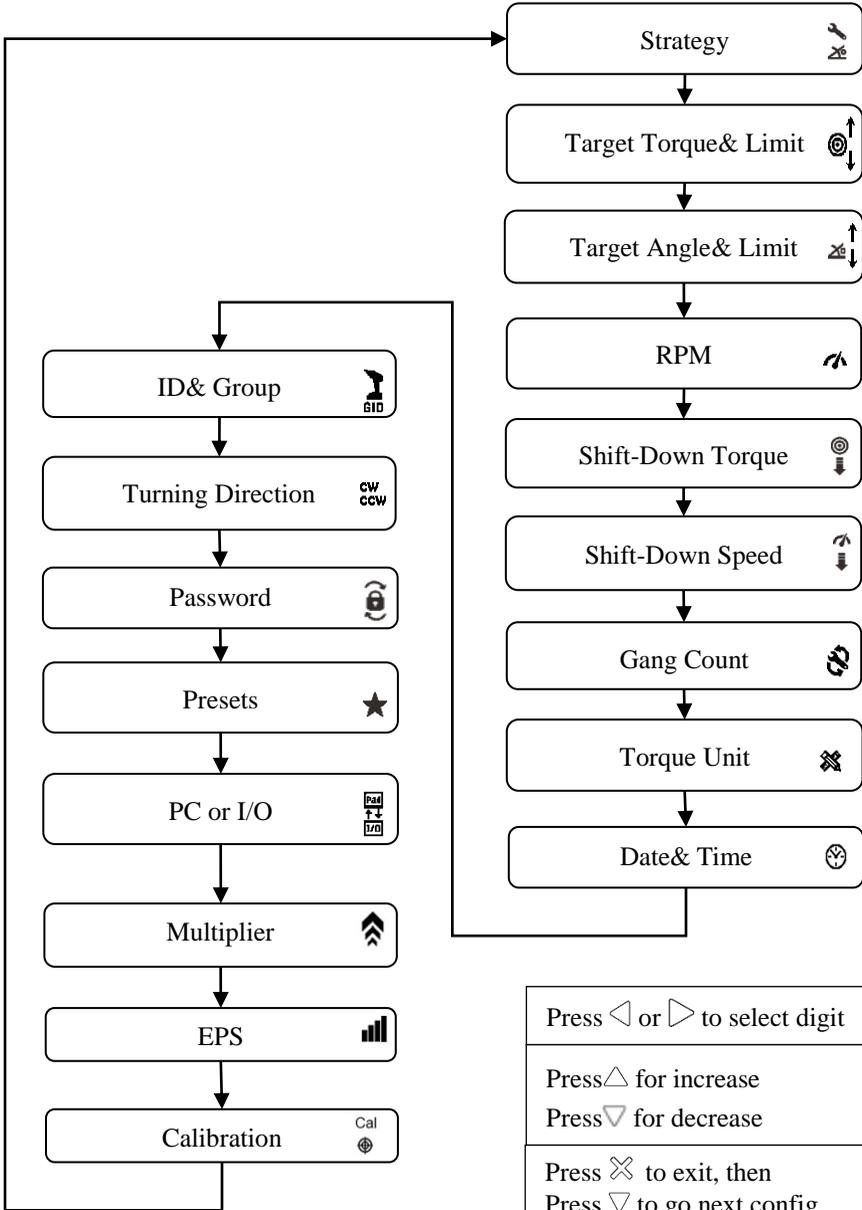


Fig.7

Menu Screens Overview



Menu Screens Overview



Press ◀ or ▶ to select digit

Press ▲ for increase
Press ▼ for decrease

Press ✕ to exit, then
Press ▾ to go next config.

Display Screen Description in Detail

There are three sections in RV2053-WR series display: one primary on the top, and two secondary on the left and right bottom of the display.

1. Main Display Screen

Power on the tool and run the screen

Primary section: shows latest peak torque (torque strategy) or latest peak angle (angle strategy) with battery level and units.

Secondary left: shows OK or NG depends on set control limit of torque or angle.

Secondary right: show latest cycle number of setting gang count.



2. Setting

This screen indicates “Setting”. User may enter to set all function and parameters.



3. Enter Password

This screen indicates “Password”. Press password and ✓ to enter EDIT mode. The default is 0000. If the display is locked the tool parameters cannot be edited.



4. Strategy

This screen indicates which strategy being used. There are torque and angle strategies for choice. Press ✓ to enter EDIT mode. Press △ and ▽ to choose adequate strategy (may refer to Pattern of Fastening). Press ✕ to SAVE and EXIT.

Torque strategy is tool’s default shut-off condition. Tool will shut-off when setting torque is reached. If angle strategy is active, the tool will turn additional setting angle degree to shut-off after setting torque reached.



5. Torque

This screen indicates target torque and the upper / lower control limit. The control limit is presetted $\pm 10\%$ of target torque automatically. Press \checkmark to enter EDIT mode. Press $\Delta / \nabla / \triangleleft / \triangleright$ to adjust. Press \otimes to SAVE and EXIT.

Primary section: target torque.

Secondary left: lower control limit.

Secondary right: upper control limit.



6. Angle

This screen indicates target angle and the upper / lower control limit. Press \checkmark to enter EDIT mode. Press $\Delta / \nabla / \triangleleft / \triangleright$ to adjust. Press \otimes to SAVE and EXIT.

Primary section: target torque.

Secondary left: lower control limit.

Secondary right: upper control limit.



7. Speed

This screen indicates free speed setting. Press \checkmark to enter EDIT mode. Press $\Delta / \nabla / \triangleleft / \triangleright$ to adjust. Press \otimes to SAVE and EXIT.



8. Shift-down Torque

This screen indicates torque threshold for shift-down point. Press \checkmark to enter EDIT mode. Press $\Delta / \nabla / \triangleleft / \triangleright$ to adjust. Press \otimes to SAVE and EXIT.



9. Shift-down Speed

This screen indicates shift-down speed. Press ✓ to enter EDIT mode. Press △/▽/◀/▶ to adjust. Press ✕ to SAVE and EXIT.

Shift-down torque and shift-down speed are helpful to improve precision especially in lower torque application. Tool starts in free speed setting value and turns to shift down speed setting value while shift down torque setting value is reached. For example, the initial speed is 500 rpm and torque target is 10Nm. If user set shift-down speed and shift-down torque as 200 rpm and 5 Nm, the tool will start at 500 rpm, and go to 200 rpm when torque is reached 5Nm and shut-off in 10Nm. User may try to optimise shift-down torque and shift-down speed to get better performance.



10. Gang Count

This screen indicates the gang count number of bolts to be fastened per group or gang. The maximum is 1000. Press ✓ to enter EDIT mode. Press △/▽/◀/▶ to set. Press ✕ to SAVE and EXIT.



11. Torque Unit

This screen indicates the unit of torque displayed. 4 kinds of units, Nm, ft-lb, in-lb, kgf-cm, can be set. The maximum is 1000. Press ✓ to enter EDIT mode. Press △/▽ to select. Press ✕ to SAVE and EXIT.



12. Date& Time

This screen displays tool time in YYYY.MM.DD, HH:MM:SS format. Press ✓ to enter EDIT mode. Press △/▽/◀/▶ to set. Press ✕ to SAVE and EXIT.



13. Group & ID

This screen indicates given group & ID of tool. Group can be set from 0 to 15. ID can be set from 0 to 9. Press ✓ to enter EDIT mode. Press △ / ▽ / ◀ / ▶ to set. Press ✕ to SAVE and EXIT.

Note: Use this configuration along with PC or I/O receiver. Contact local supplier for more information about the product.



14. Direction of Fasten

This screen indicates the fasten direction when tool direction lever in forward position. CW indicates clockwise meanwhile CCW indicates anti clockwise. Press ✓ to enter EDIT mode. Press △ / ▽ to select. Press ✕ to SAVE and EXIT.



15. Password

This screen indicates password setting used in the tool. Press ✓ to enter EDIT mode. Press △ / ▽ / ◀ / ▶ to change password. Press ✕ to SAVE and EXIT.



16. Pre-sets

This screen indicates configuration setting used in the tool. There are up to 8 sets to configuration. User need to load configuration first to programme and memorise settings. Press ✓ to enter EDIT mode. Press △ / ▽ to select configuration number that would like to programme. Press ✕ to SAVE and EXIT



17. PC or IO

This screen indicates wireless mode. PC mode or IO mode can be selected. Press ✓ to enter EDIT mode. Press △ / ▽ to select mode. Press ✕ to SAVE and EXIT.

Note: Use this configuration along with PC or I/O receiver. Contact local supplier for more information about the product.



18. Multiplier

This screen indicates Multiplier type connected in the tool. Press ✓ to enter EDIT mode. Press △ / ▽ to select type. Press ✕ to SAVE and EXIT.

Note: Only turn on this configuration when a multiplier is installed. Contact local supplier for more information about the multiplier



19. EPS

This screen indicates EPS function in the tool. Press ✓ to enter EDIT mode. Press △ / ▽ to select type. Press ✕ to SAVE and EXIT.

When EPS is set off, tool deliver direct force; when EPS is set on, tool activate Electro-Pulse System to reduce reaction from torque, there are 3 types of EPS strategy

HJ/ Ergonomic Mode: The mode with the most pulses per unit time, the slowest and softest pulse speed, is ideal for use in hard-joint bolt fastening.

Normal/Performance Mode: Provides an average number of pulses per unit time, which is commonly used in general bolt fastening

SJ/Efficiency Mode: The mode with the lowest pulse per unit time and the fastest pulse speed, ideal for soft-joint bolting and efficient production



20. Torque Calibration

User may calibrate the coefficient value ranged from 80% to 120% complied with their torque tester. The default is 100%. Press ✓ to enter EDIT mode. Press △ / ▽ to adjust compensation value. Press ✕ to SAVE and EXIT.

Torque calibration mode provides an intuitive method for torque compensation, aligning tool with your trusted reference standard. If the torque output value displayed on your power tool panel is steadily lower than the torque value displayed on the torque meter, gradually decrease the Calibration Ratio to align; in the opposite case, increase the Calibration Ratio.



21. Accumulated Count

This screen indicates totally accumulated count in the tool.



22. Shunt Value & Wireless Mode

Left screen indicates Shunt value.

Right screen indicates wireless mode in the tool.



Operation

The allowable tightening torque varies depending on the type and size of the screw/bolt and the material of the workpiece to be locked. During operation, hold the tool firmly, and then press the power switch of the tool to start operation. The tool will automatically stop when the target torque is reached.

Note:

- When tightening M8 screws or smaller locking objects, the torque must be reduced or a low-torque tool model must be used to prevent the screws from being broken.
- When tightening screws, aim the tool bolt upright at the screw.

- If you tighten the screw to a measurement that is too large, the screw may become overstressed, cracked, damaged, etc. Before starting a work, be sure to perform an evaluation to determine the measurements of your tightening screws.
- When using a torque above 30Nm for a long time, it is recommended to use it with a reaction arm.
- When using a large torque of 60Nm or more, it is recommended to turn on the EPS operation to prevent personnel from spraining their hands. If the EPS is not turned on, please use appropriate reaction arm to ensure the safety of the operator and improve comfort during long-term work.

Fastening torque is affected by many factors such as the following

1. The way holding the tool or the material of the workpiece will affect torque.
2. Not using the correct size socket to fasten the screws ◦
3. Bolt:
 - Even if the torque coefficients and grades of bolts are the same, the allowable tightening torque is different depending on the diameter.
 - Even if the diameter of the bolt is the same, the allowable locking torque is different depending on its torque coefficient, grade and length.
 - different depending on its torque coefficient, grade and length.

NOTE	Strongly recommend to turn on EPS function if applied torque over 60Nm. This is to prevent injury caused by reaction force from the high torque. In the case of not using EPS, operate with mechanical arm or reaction arm instead.
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Troubleshooting

Code	Description	Troubleshooting
E001	Over current	1. Electronic fault, Call service center
E002	Low Battery	1. Change Battery 2. Electronic fault, Call service centre
E003	Battery overheating	1. Change Battery 2. Wait sometime for tool and battery to cool out. 3. Electronic fault, Call service centre
E004	Battery low temp	1. Change Battery 2. Sit battery in suggested temp., then reinstall. 3. Electronic fault, Call service centre
E005	MOS high temp.	1. Sit tool in suggested temp to cool it. 2. Electronic fault, Call service centre
E006	Electric short	1. Electronic fault, Call service centre
E007	Motor stall	1. Gearbox broken or electronic fault, call service center
E008	Motor overheating	1. Sit tool in suggested temp to cool it. 2. Electronic fault, Call service centre
E009	Strain gauge fault	1. Strain gauge broken or electronic fault, call service centre
E010	Abnormal memory	1. Electronic fault, Call service centre

English

E011	Lockout time too long	<ol style="list-style-type: none">1. Change Battery2. Adjust tool setting. Current setting is not suit for the working joint type3. Electronic fault, Call service centre
E012	Over Torque	<ol style="list-style-type: none">1. Adjust tool setting. Current setting is not suit for the working joint type2. Electronic fault, Call service centre
E999	Wrong password	<ol style="list-style-type: none">1. Re-enter correct password2. Call service centre for password resetting

Note: if troubleshooting doesn't work, call authorised service centre.

NOTE

Only do tool and receiver be pairing during both set on the same Group and ID. Do not set all tools or receivers on the same one Group and ID. More than two tools or receivers setting on the same one Group and ID means they are in the same channel and users could not tell which signals come from which tools.

NOTE

Continuous use in variable speed range is not recommended. It may damage the switch and should be avoided.

NOTE

When change the position of the control button, making sure the variable speed switch is released.

NOTE

The first time the tool is run after changing the direction of rotation, you may hear a click on start up. This is normal and does not indicate a problem.

MAINTENANCE

WARNING

Remove the battery pack from this tool before cleaning solutions.

NOTE

This tool is lubricated before it leaves the factory. This lubrication should last for the life of the tool. No further lubrication is required.

DANGER

A battery pulse tool is a precision tool. Disassembly, assembly, adjustment require exclusive JIGS plus testers, and trained techniques. Incorrect disassembly, reassembly or adjustment can cause not only insufficient power but also accidents. Ask for these services from an authorized service centre. The maker or supplier will not be held liable for any damages caused by factors found to be the cause of faulty use or repair by users or unauthorized service provider.

CLEANING

English

Blow dirt and dust out of all air vents with dry air at least once a week. Wear safety glasses when perform. Exterior plastic enclosure may be cleaned with a damp cloth and mild detergent, NEVER use solvent.

If you have any questions, please consult the nearest office or dealer

ACCESSORIES

HANGER CONNECTION

Insert hanger ends into hanger holes at the top of housing.

Do not use accessories which are not specially designed and recommended by the tool manufacturer. Safe operation is not ensured merely because an accessory fits your power tool.

IMPORTANT

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustments should be performed by certified service centres or other qualified service organisations, always using identical replacement parts.

PROTECTING THE ENVIRONMENT

Before disposing of damaged, check with your state Environmental Protection Agency to find out about special restrictions on the disposal of tool or return them to a certified service centre for recycling.



DUROFIX™



For technical support, call: 886-4-25683366

Service address: Mobiletron Electronics Co., Ltd.

No. 85, Sec. 4, Chung-Ching Rd.

Ta-Ya, Taichung, 428, Taiwan

www.durofix.com.tw



EC DECLARATION OF CONFORMITY

We: Mobiletron Electronics Co., Ltd.

85, Sec. 4, Chung Ching Rd., 428 Taya District, Taichung City, Taiwan

declare in sole responsibility that the equipment

Equipment : **Transducerized Angle Precision Tool**

Model/ Serial No. : **RV2053-WR45, RV2053-WR80, RV2053-WR120**

to which this declaration applies, complies with these normative documents:

Machinery Directive: 2006/42/EU

EMC Directive: 2014/30/EU

and conforms to the following EN standard,

EN 62841-1:2015/A11:2022,

EN 62841-2-2:2014/AC:2015

EN IEC 55014-1:2021,

EN IEC 55014-2:2021,

EN IEC 61000-3-2:2019+A1:2021,

EN 61000-3-3-2013+A2:2021

The technical documentation is kept by our authorized representative :

MOBILETRON ELECTRONICS CO., LTD.

No. 85, Sec. 4, Chung-Ching Rd., Ta-Ya, Taichung, 428, Taiwan

Phone: 886-4-25683366, e-mail: www.durofix.com.tw

Signature

Wen-Yaw Chi